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UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

NATIONAL FOREST FACTS

SOUTHWESTERN REGION

ARIZONA AND NEW MEXICO

1953-54

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I
PUBLICATIONS
Production
"National Forest Facts"

The purpose of this booklet is to provide the salient facts regarding the forest resources and their management in the Southwestern Region of the Forest Service, U. S. Department of Agriculture. It includes the thirteen National Forests in Arizona and New Mexico.

REGIONAL FORESTER
Tower Building
Albuquerque, New Mexico

1953-54

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TIMBER RESOURCES IN ARIZONA AND NEW MEXICO

Forest area in Arizona and New Mexico may be divided into two types:

1. The sawtimber area, containing ponderosa pine, Douglas fir, white fir and other species suitable for logging operations. This area is generally found above 7,000 feet elevation and up to 11,500 feet (timberline). It receives precipitation averaging 19 inches or better, annually. (In general, precipitation increases with elevation.)

2. The woodland area, containing pinon, juniper, oak and the like. Generally between the 5,000-foot and 7,000-foot elevations, where precipitation is from 12 to 18 inches annually.

FOREST AREA IN REGION 3
(In acres. Includes all ownerships.)

	*Timbered Area	Woodland Area	Total Forest Area
ARIZONA	4,638,000	14,900,000	19,538,000
NEW MEXICO	6,101,000	13,900,000	20,001,000
REGION 3	10,739,000	28,800,000	39,539,000

*A considerable part of the timbered area in Arizona and New Mexico is inaccessible or too scattered for logging purposes or withdrawn for purposes other than timber production. This part is classed as "Non-commercial." The part which can be used for timber production is called the "Commercial" sawtimber area, and according to present criteria, this area is all that will support future timber production.

COMMERCIAL SAWTIMBER AREA AND VOLUME

ARIZONA	Area (Acres)	Volume (M ft. B. M.)
National Forests	2,058,000	11,550,000
Indian Reservations	686,000	4,467,000
State	30,000	105,000
Total, Federal and State	2,774,000	16,122,000
Private	41,000	148,000
Grand Total	2,815,000	16,270,000
NEW MEXICO		
National Forests	2,020,000	5,610,000
Indian Reservations	345,000	653,000
Other Federal*	40,000	142,000
State	149,000	407,000
Total, Federal and State	2,554,000	6,812,000
Private	911,000	1,659,000
Grand Total	3,465,000	8,471,000

The commercial sawtimber area may be divided as follows (by acres):

	Virgin	Cut-over	Total
Arizona	1,919,000	896,000	2,815,000
New Mexico	1,784,000	1,680,000	3,464,000

The cut-over land varies in its condition and consequently in its ability to produce future timber crops. For the Region, it varies about as follows:

	Acres
1. Denuded lands with only a light stand of seedlings and saplings	424,000
2. Land fairly stocked with seedlings and saplings .	495,000
3. Land with pole timber (trees between 4 and 12 inches D.B.H.)	598,000
4. Selectively-cut land such as that on publicly-owned areas	960,000
	2,477,000

It is only from such lands as the last (No. 4) that an early second cut of timber will be obtainable.

NUMBER OF TREE SPECIES IN REGION 3

There are about 130 species of trees in Region 3. Of these, four make up 98% of volume of the sawtimber stand. They are: Ponderosa Pine (Pinus Ponderosa), 82%; Douglas fir (Pseudotsuga taxifolia), 10%; White fir (Abies concolor), 3%; Engelmann Spruce (Picea engelmanii) and Blue Spruce (Picea pungens), 3%. Corkbark fir (Abies Arizonica) and Limber Pine (Pinus flexilis) etc. make up the remaining 2%.

SAWTIMBER CUT BY YEARS (ENTIRE STATE)

Data from Census (Calendar Year)
(All Ownerships)

(The figures below are in M. ft. Board Measure (1,000 board feet.)

Year	Number Mills Reporting: Arizona	Number Mills Reporting: New Mex.	Total Cut: Arizona	Total Cut: N. Mex.	Total Cut Arizona & New Mexico
1932	22	52	58,000	72,000	130,000
1934	34	74	73,000	101,000	174,000
1936	36	87	123,411	140,840	264,251
1937	39	105	123,041	164,446	287,487
1938	37	94	118,200	125,176	243,376
1939	42	98	119,206	106,227	225,433
1940	41	100	128,776	112,786	241,562
1941	42	119	130,567	114,612	245,179
1942	38	138	143,286	122,958	266,244
1943	44	118	151,547	109,099	260,646
1944	47	136	172,198	105,348	277,546
1945	53	135	157,984	99,100	257,084
1946	66	158	240,735	144,214	384,949
1947	61	162	220,017	126,925	346,942
1948	50	120	247,400	124,608	372,008

The sawtimber forests of Arizona and New Mexico have supplied sawtimber for the production of approximately ten billion board feet of saw products during the period 1879 to 1949, inclusive.

TIMBER CUT FROM NATIONAL FORESTS, BY YEARS

All classes of products converted to M ft. Board Measure. All classes of forest sales.

Calendar Year	Sales (All Classes) & Exchange M ft. BM: Arizona	New Mexico	Total Arizona & New Mexico	Average Price Per M Ft.	Free Use *: Arizona	New Mexico	Total
1941	79,301	29,949	109,250	2.45	6,767	29,850	36,617
1942	75,033	45,190	120,223	2.48	6,575	20,588	27,163
1943	77,634	54,053	131,687	2.82	4,756	13,660	18,416
1944	113,551	41,678	155,229	3.40	4,970	13,565	18,535
1945	109,209	42,768	151,977	3.33	5,304	16,527	21,831
1946	170,358	49,477	219,835	3.29	6,845	18,606	25,451
1947	196,444	47,854	244,298	3.54	4,579	17,061	21,640
1948	193,498	43,225	236,723	4.32	4,958	13,022	17,980
1949	136,264	48,187	184,451	5.21	4,626	12,555	17,181
1950	206,154	62,710	268,864	5.58	5,053	13,683	18,736
1951	194,512	53,758	248,270	7.99	4,251	15,645	19,896
1952	175,501	60,002	235,503	9.17	4,636	14,976	19,612

In addition, the Forest Service supervised the cutting of 6,009 M.B.F. of State timber and 5,017 M.B.F. of private timber under cooperative agreements in 1952.

*Allowed settlers and residents on and adjacent to the National Forests for fuel, fencing, building, etc. These figures on fiscal year basis.

NATIONAL FOREST TIMBER CUT, BY FORESTS

Fiscal Year 1952

ARIZONA

National Forest	Sales & Exchange (1000 Bd. Ft.)	Value	Amount Free Use (1000 Bd. Ft.)
Apache	47,804	$ 266,216	639
Coconino	62,643	576,685	686
Coronado	382	806	1,377
Crook	983	6,901	30
Kaibab	22,959	341,394	362
Prescott	1,762	8,929	290
Sitgreaves	45,763	486,241	375
Tonto	4,240	37,016	877
Total - Arizona	186,536	$1,724,188	4,636

NEW MEXICO

Apache	9,821	62,238	928
Carson	6,336	45,381	6,598
Cibola	5,022	33,588	986
Coronado			50
Gila	7,352	61,878	550
Lincoln	7,760	47,017	450
Santa Fe	20,825	177,172	5,414
Total - New Mexico	57,116	427,274	14,976
TOTAL - REGION 3	243,652	2,151,462	19,612

Estimated number users supplied free use timber - 12,123.

LIVESTOCK GRAZED UNDER PERMIT ON NATIONAL FORESTS--C. Y. 1952

State	Cattle and Horses	Animal Months	No. of C&H Permits	Sheep and Goats	Animal Months	No. of S&G Permits	Free Use Livestock
Arizona	134,265	1,180,748	830	87,793	334,632	26	4,022
N.Mex.	71,461	593,139	1,820	87,378	397,384	166	3,970

TOTAL AREA AVAILABLE FOR LIVESTOCK ON NATIONAL FORESTS

Arizona	8,913,800
New Mexico	5,607,430
Total	14,521,230

GOVERNMENT-OWNED RANGE USE IMPROVEMENTS, JUNE 30, 1952

ARIZONA

Forest	Fence & Corrals: Miles	Stock Driveways: Miles	Water Developments: Number	Cost
Apache	530.5	45.0	86	199,962.86
Coconino	1,142.8		353	492,614.26
Coronado	1,481.2		706	723,404.77
Crook	1,291.5		571	587,428.33
Kaibab	652.4		205	337,407.48
Prescott	1,123.2	7.5	374	603,645.75
Sitgreaves	412.8		96	167,967.61
Tonto	1,789.4	120.8	637	681,001.47
Total Forests	8,423.8	173.3	3,028	3,793,432.53
Swn. Station	121.0		30	84,073.92
GRAND TOTAL ARIZONA:	8,544.8	173.3	3,058	3,877,506.45

NEW MEXICO

Apache	532.5		118	206,201.80
Carson	506.2	143.0	104	241,312.68
Cibola	1,608.3		276	615,136.91
Coronado	70.0		48	32,040.44
Gila	1,798.2		280	674,185.68
Lincoln	906.8		255	549,484.70
Santa Fe	639.2	44.0	29	219,339.93
Total Forests	6,061.2	187.0	1,110	2,537,702.14
Swn. Station	132.0		31	57,794.40
GRAND TOTAL N.MEX.	6,193.2	187.0	1,141	2,595,496.54
TOTAL FORESTS	14,485.0	360.3	4,138	6,331,134.67
TOTAL SOUTHWESTERN	253.0		61	141,868.32
GRAND TOTAL R-3	14,738.0	360.3	4,199	6,473,002.99

WILDLIFE

ESTIMATES OF WILDLIFE ON NATIONAL FORESTS

Calendar Year 1951

State	Antelope	Black or Brown Bear	Deer	Elk	Mtn. Sheep	Peccary or Javelina
Arizona	7,200	1,100	77,000	11,000	60	14,000
New Mexico	1,900	1,300	59,000	2,300	140	600
Total R-3	9,100	2,400	136,000	13,300	200	14,600

GAME ANIMALS KILLED ON NATIONAL FORESTS - 1951

State	Antelope	Bear	Deer	Elk	Peccary
Arizona	282	100	8,171	11,174	800
New Mexico	9,105	100	4,822	123	
Total R-3	9,387	200	12,993	11,297	800

SMALL GAME, GAME BIRDS AND FURBEARERS ON NATIONAL FORESTS

Species	Arizona Abundance				New Mexico Abundance			
	*A	C	O	R	A	C	O	R
Cottontail Rabbit		X				X		
Abert Squirrel		X						
Tuft-eared Squirrel		X					X	
Fox Squirrel				X				X
Turkeys		X				X		
Blue Grouse				X			X	
Gambel Quail		X					X	
Scaled Quail			X					X
Ducks			X				X	
Bandtailed Pigeon				X			X	
Mourning Dove		X						
Bobcat			X			X		
Coyote			X				X	
Fox		X					X	
Badger			X				X	
Beaver			X			X		
Marten				X				X
Skunk		X				X		

*Code Letters

A - Abundant C - Common O - Occasional R - Rare

HUNTING AND FISHING ON NATIONAL FORESTS

Users	Number	Total Day Use
Arizona		
Big Game Hunters	49,094	135,832
Small Game Hunters	11,545	31,335
Fishermen	115,205	326,600
Total	175,844	493,767
New Mexico		
Big Game Hunters	30,528	96,544
Small Game Hunters	4,335	10,185
Fishermen	53,670	157,030
Total	88,533	263,759
Region 3		
Big Game Hunters	79,622	232,376
Small Game Hunters	15,880	41,520
Fishermen	168,875	483,630
Total	264,377	757,526

NATIONAL FOREST FISHING WATERS*

	Streams (Miles)	Lakes (Acres)
Arizona	731	37,506
New Mexico	1,115	437
Region 3	1,846	37,943

*These figures available only on 5-year report. No 5-year report in 1952.

PUBLIC CAMPGROUNDS AND PICNIC GROUNDS ON NATIONAL FORESTS IN ARIZONA

(For further details, write the Forest Supervisor, at headquarters shown for each forest. Example: "Forest Supervisor, Crook National Forest, Safford, Arizona.")

Name	Location	No. of Camp Setups	Camping	Picnicking	Hunting	Fishing
Apache National Forest (Supervisor's headquarters at Springerville, Arizona)						
Hannagan	U. S. 666	10	X	X	X	
Blue Crossing	Blue River Road	2	X	X		
Buffalo Crossing	Water Canyon Road	5	X	X	X	X
Sheep Crossing	8 mi. SW of Greer	4	X	X	X	X
Greer	Greer, Arizona	12	X	X	X	X
Alpine	US 260-666	5	X	X	X	
Big Lake	20 mi. SW Springerville	4	X	X	X	X
Pueblo Park	16 mi. S. of Luna US 60	4	X	X		
Cottonwood Canyon	67 mi. s. of Springerville on US 260	5	X	X	X	
Luna Reservoir	3 mi. E. of Alpine	2	X	X	X	X
Coconino National Forest (Supervisor's headquarters at Flagstaff, Arizona)						
Townsend	Junc. US-89 & St. 67	9	X	X		
Kit Carson	US 66 2 mi. w. of Flagstaff	22	X	X		
Oak Creek Canyon	US 89-A	90	X	X		X
Lake Mary	8 mi. S. Flagstaff	33	X	X	X	X
Dairy Springs	Mormon Lake, 30 mi. S. Flagstaff	38	X	X	X	X
Kehl Springs	Mogollon Rim	6	X	X	X	
Arizona Snow Bowl	San Francisco Peaks					
Coronado National Forest (Supervisor's headquarters at Tucson, Arizona)						
Sabino Canyon	15 mi. NE Tucson	43	X	X		X
Catalina Rec. Area	6 areas in Catalinas NE of Tucson	200	X	X	X	X
Madera Canyon	35 mi. S. Tucson	31	X	X	X	
Cave Creek	5 mi. W. of Portal	29	X	X	X	X
Pinery Canyon	SE of Willcox	14	X	X	X	
Rucker Canyon	N. of Douglas	22	X	X	X	X
Turkey Creek	N. of Douglas	12	X	X		
Cochise Stronghold	SE of Dragoon	6	X	X	X	
Crook National Forest (Supervisor's headquarters at Safford, Arizona)						
Upper Juan Miller	US 666 N. Clifton	4	X	X	X	
Stray Horse	US 666 ft. of Blue Rim	5	X	X	X	
Arcadia	Graham Mountains	10	X	X		

Continued

Name	Location	No. of Camp Setups	Camping	Picnicking	Hunting	Fishing
Crook National Forest (Continued)						
Shannon	Marijilda Canyon	8	X	X		
Jones Water	US 60 20 Mi. N. Globe	11	X	X		
Oak Flat	US 60-70	19	X	X		
Pinal Mountains	S. of Globe	16	X	X		
Hospital Flat	Swift Trail (Mt.Graham)	15	X	X		
Soldier Creek	Columbine R.S.	7	X	X		
Stockton Pass	Swift Trail	3	X	X		
Marijilda	Mt. Graham	3	X	X		
Noon Creek	Mt. Graham	6	X	X		
Wet Canyon	Mt. Graham	2		X		X
Turkey Flat	Mt. Graham	22		X		
Pioneer Pass	S. of Globe	23	X	X		X
Kellner Canyon	S. of Globe	4		X		
Warnica Spring	S. of Miami	4	X	X		
Lower Juan Miller	US 666 N. Clifton	4	X	X		X
Honeymoon	US 666 N. Clifton	5	X	X		X
Granville	US 666 N. Clifton	6	X	X		
Kaibab National Forest (Supervisor's headquarters at Williams, Arizona)						
Whitehorse Camp	16 mi. S. Williams	10	X	X		X
Jacob Lake	Junc. US 89 St. 67	18	X	X		X
Garland Prairie						
Vista Parks	State Highway 66	5	X	X	X	
Prescott National Forest (Supervisor's headquarters at Prescott, Arizona)						
Thumb Butte	4 mi. W. Prescott	6		X		
The Playgrounds	2 mi. SE Mingus Mtn. Inn	6		X	X	
Potato Patch	½ mi. E. Mingus Mtn. Inn	9		X	X	
Horsethief Basin	Bradshaw Mtn. S.Crown King	50	X	X	X	X
Granite Creek	3 mi. S. Prescott	13	X	X		
Indian Creek	5 mi. S. Prescott	25	X	X		
Wolf Creek	On cutoff road between White Spar & Senator Highways	19	X	X	X	
Mingus Mtn.	Mingus Mtn.	20	X	X	X	
Powell Springs	15 mi. E. of Dewey	10	X	X	X	
Granite Basin	8 mi. NW Prescott	19	X			X
Sitgreaves National Forest (Supervisor's headquarters at Holbrook, Arizona)						
Pinetop	State Hwy. 173	8	X	X	X	X
Lakeside	State Hwy. 173	21	X	X	X	X
Tonto National Forest (Supervisor's headquarters at Phoenix, Arizona)						
Seven Springs	N. Phoenix, Camp Creek Rd.	22	X	X		
Cave Creek	N. Phoenix, Cave Creek Rd.	12	X	X		
Rose Creek	N. Globe	4	X	X		X

Continued

Name	Location	No. of Camp Setups	Camping	Picnicking	Hunting	Fishing
Tonto National Forest (Continued)						
Reynolds Creek	N. Globe	2	X	X		X
Sycamore	N. Payson	8	X	X		X
Pine	N. Payson	8	X	X	X	X
Horton-Tonto Creek	Upper Tonto Road	38	X	X	X	X
Apache Lake	Apache Lake	3	X	X		X
Burnt Corral	Apache Lake		X	X		X
Roosevelt Hotel	Roosevelt Lake	3	X	X	X	X
Blue Point	E. Phoenix	10	X	X		X
Stewart Mtn. Lake	E. Phoenix	3	X	X		X
Carney Springs	E. Mesa	1	X	X		
Coon Bluff	Salt River, E. Phoenix	10	X	X		X
Canyon Lake	Salt River, E. Phoenix	6	X	X		X
River Picnic Area	Salt River, E. Phoenix	4	X	X		X

PUBLIC CAMPGROUNDS AND PICNIC GROUNDS ON NATIONAL FORESTS IN NEW MEXICO

Name	Location	No. of Camp Setups	Camping	Picnicking	Hunting	Fishing
Carson National Forest (Supervisor's headquarters at Taos, New Mexico)						
Red River	7 camps in Red River Canyon	15	X	X	X	X
Hondo Canyon	7 camps in Hondo Can.	15	X	X	X	X
Taos Canyon	6 camps in Taos Canyon	34	X	X		
Rio Pueblo	4 camps on Rio Pueblo	44	X	X	X	X
Santa Barbara	7 mi. SE of Penasco	11	X	X	X	X
Cabresto Lake	7 mi. NE of Questa	12	X	X	X	X
El Rito	El Rito Cr.above El Rito	5	X	X	X	X
Lagunitas	15 mi. W. of San Antone Ranger Station	4	X	X	X	X
Upper Canjilon	10 mi. E. of Canjilon	4	X	X	X	X
Echo Amphitheatre	15 mi. S. of Canjilon	4	X	X	X	
La Jara	8 mi. N. of Vallecitos	4	X	X	X	X
Canjilon Lakes	8 mi. E. of Canjilon	4	X	X	X	X
Cibola National Forest (Supervisor's Headquarters at Albuquerque, N. M.)						
McGaffey	24 Mi. SE of Gallup	20	X	X		X
Quaking Aspen	6 Mi. S. of Ft.Wingate	3	X	X		
Whitewater	24 Mi. S. of Gallup	2	X	X		
Canyon Lobo	10 Mi. N. of Grants	3	X	X		
Water Canyon	5 Mi. off Hwy. 60, 17 Mi.from Magdalena	6	X	X	X	
Manzano Mtns.	6 areas E.side of Manzanos	35	X	X		
Red Cloud	Gallinas Mtns.	3		X		
Balsam Glade	On Sandia Loop Drive	5		X		

continued

Name	Location	No. of Camp Setups	Camping	Picnicking	Hunting	Fishing
Cibola National Forest (Continued)						
Capulin Spring	On Sandia Loop Drive	20		X		
Cienega Canyon	On Sandia Loop Drive	26		X		
Cole Spring	On Sandia Loop Drive	8		X		
Tree Spring	On Sandia Loop Drive	2		X		
Dry Camp Loop Rd.	On Sandia Loop Drive	2		X		
Kiwanis Point	On Sandia Loop Drive	3		X		
Las Huertas Canyon	On Sandia Loop Drive	19		X		
Doc Long	On Sandia Loop Drive	25		X		
Sandia Crest	On Sandia Loop Drive	2		X		
Sulphur Canyon	On Sandia Loop Drive	16		X		
Juan Tabo Canyon	On W. foot Sandia Mtns.	20		X		
La Cueva	On W. foot Sandia Mtns.	22		X		
Cedro Peak	At LO tower E. of Hwy 10	2		X		
Hughes Mill	San Mateo District	2	X	X	X	
Luna Park	San Mateo District	3		X		
Springtime	San Mateo District	6	X	X	X	
Beartrap	San Mateo District	2	X	X	X	
Gila National Forest (Supervisor's headquarters at Silver City, N. M.)						
Little Walnut	6 mi. from Silver City	14		X		
Cherry Creek	14 mi. from Silver City	6	X	X	X	
Little Dry	51 mi. N. Silver City U. S. 260	8	X	X		
Whitewater	5½ mi. above Glenwood	9	X	X		X
Willow Creek	Willow Creek Rd. #78	3	X	X	X	X
Iron Creek & Wright's Cabin	Black Range Hwy. #180	14	X	X	X	
McMillan	15 mi. N. Silver City	3		X		
Pine Flat	20 mi. N. Silver City	3		X		
Goforth	15 Mi. NW of Mimbres	1		X		
Bursum	10 Mi. E. of Mogollon	3		X		
Ben Lilly	Willow Creek	3	X	X	X	X
Gilita	Bursum Road	3	X	X	X	X
Negrito Tower	S. of Collins Park	2		X		
Rock Canyon	North Star Road	2	X	X	X	
Black Canyon	North Star Road	5	X	X	X	X
Wall Lake	North Star Road	4	X		X	X
Bear Canyon	2 mi. N. Mimbres	3	X	X		X
Emry Pass	Hwy. 180 - 8 mi. West Kingston	2		X		
Upper Whitewater	4 Mi. S. Mogollon	2	X		X	X

continued

Name	Location	No. of Camp Setups	Camping	Picnicking	Hunting	Fishing
Lincoln National Forest (Supervisor's headquarters at Alamogordo, N. M.)						
Nogal Lake	West of Capitan	5	X	X		X
Cedar Creek	Near Ruidoso	8	X	X		
School House	At Ruidoso	24	X	X		
James Canyon	James Canyon	4	X	X		
Sitting Bull Falls	Guadalupe Mountains	13	X	X		
Karr Canyon	Cloudcroft	5		X		
Santa Fe National Forest (Supervisor's headquarters at Santa Fe, N. M.)						
Battleship Rock	Jemez Springs Road	14	X	X	X	X
Paliza	Paliza Canyon	17	X	X	X	X
Little Tesuque & Black Canyon	Adjacent to Hyde State Park	24	X	X		
Panchuela	Panchuela Creek	11	X	X		X
Winsor Creek	Winsor Creek	8	X	X		X
Field Tract	NE Santa Fe	12	X	X		X
Gallinas Canyon	NE of Las Vegas	11	X	X		X
Santa Fe Basin	North of Pecos	6	X	X		X
Clear Creek	East of Cuba	5	X			X
La Cueva & San Antone Cr.	N. Jemez Springs	3	X	X		X
East Fork	State Road No. 4	4	X	X	X	X
Big Tesuque	Loop Road	2		X		
Dalton Canyon	Pecos	6		X		X
Holy Ghost	Pecos	8	X	X		X
Mud Springs	N. of Regina	1	X	X	X	
Puerco	S. of Capulin	2	X	X	X	X
Jemez Falls	½ Mi. off State Rd. #4	4	X	X	X	X
Banco Bonito	Off State Road #4	5	X	X	X	X
Las Conchas	On State Road #4	5	X	X	X	X
Rio Las Vacas	Jemez Spgs.-Cuba Road	1	X	X	X	X
Calavares	Jemez Spgs.-Cuba Road	4	X	X	X	X
Jemez River	Jemez Spgs.-Cuba Road	5	X	X	X	X
Spence Spring	Jemez Spgs.-Cuba Road	2	X	X	X	X

RECREATION VISITORS - 1951

(Estimates cover government-owned lands only)

Recreation Areas	Arizona	New Mexico	Region 3
Campgrounds	140,900	62,784	203,684
Picnic Areas	400,850	452,110	852,960
Winter Sports Areas	11,570	19,795	31,365
Organization Camps	13,425	7,455	20,880
Hotels and Resorts	69,055	1,770	70,825
Recreation Residences	12,010	3,770	15,780
Wilderness Areas	27,712	6,290	34,002
Other Forest Areas	437,484	356,614	794,098
Highways and Roads	1,797,470	597,335	2,394,805
TOTALS	2,910,476	1,507,923	4,418,399

WILDERNESS AREAS

ARIZONA

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Final Approval
Apache (Crook)	Blue Range	216,737	1,427	8/20/36
Tonto	Mazatzal	205,000	346	6/13/40
Tonto (Crook)	Superstition	124,140		4/17/40*

NEW MEXICO

Gila	Black Range	168,424	1,560	8/20 /36
Gila	Gila	562,609	4,445	4/4/38**
Santa Fe	Pecos Division	136,640	1,360	8/22/36

WILD AREAS

ARIZONA

Apache	Mt. Baldy	7,400		8/20/36
Coconino	Sycamore Canyon	21,277	1,108	8/20/36
Kaibab	Sycamore Canyon	5,870		
Prescott	Sycamore Canyon	18,975		
Coronado	Chiricahua	18,000		9/18/40
Crook	Galiuro	55,000		6/19/40
Prescott	Pine Mountain	9,842	76	8/22/36
Tonto	Pine Mountain	7,582		
Tonto	Sierra Ancha	20,850	66	2/28/33***

NEW MEXICO

Lincoln	White Mountain	22,800	1,200	8/20/36
Santa Fe	San Pedro Parks	41,132		9/16/40

* Revised 1950
** Amended 11/25/44
*** Amended 1950

WATERSHED MANAGEMENT

STREAM FLOW CHARACTERISTICS OF SMALL MOUNTAIN WATERSHEDS IN CENTRAL ARIZONA AS RELATED TO PRECIPITATION

	Elevation (feet)	Precipitation (inches)	Stream flow (inches)	Stream flow as per cent of precipitation
Winter Period (October through May)				
Workman Creek (1938-52)	6500-7700	22.09	3.02	13.7
Parker Creek (1934-52)	5400-7400	16.81	5.91	35.2
Pocket Creek (1936-52)	5300-7000	16.02	3.07	19.2
Summer Period (June through September)				
Workman Creek (1938-52)	6500-7700	10.48	0.47	4.5
Parker Creek (1934-52)	5400-7400	8.87	.41	4.6
Pocket Creek (1937-52)	5300-7000	8.57	.26	3.0

The major part of the water yield produced in Arizona and New Mexico originates from winter precipitation. Evaporation is much less in winter, and use by plants is at minimum. Much of the run-off from the short duration summer storms is lost in dry stream channels.

The percentage of precipitation yielded as streamflow is always small and it varies between watersheds and from year to year. Variations are caused by many characteristics including geology, topography, depth of soil, and vegetation cover; as well as by amount, nature, and distribution of the precipitation.

ESTIMATED WATER YIELD FROM TYPICAL SOUTHWESTERN DRAINAGES

(The basis for these estimates is a correlation of stream-gauging and precipitation records, adjusted to elevations, vegetative association and other factors affecting run-off. The precipitation data were obtained from weather records and state maps and the available stream-gauging records used for certain basic flow determinations were obtained from U.S.G.S. water supply papers.)

SANTA FE NATIONAL FOREST

Drainage Name	Gross Area of Basin--Sq.Mi. (Santa Fe N.F.)	Annual Water--Acre Ft. Yield Per Year	Per Sq. Mi.
Mora River*	132	42,000	317
Gallinas River	57	20,000	346
Tecolote Creek	46	8,000	179
El Rito Creek	30	3,500	118
Canyon Blanco	74	4,500	60
Cow Creek	121	26,500	220
Pecos River	306	108,000	353
Rio Galisteo	74	6,200	85
Santa Fe Creek	35	8,500	242
Pojoaque Creek	60	13,100	218
Santa Cruz & Truchas	117	36,000	308
Direct Tributaries from West Side**	209	17,600	84
Jemez River	223	40,400	181
Rio Puerco	102	12,100	119
Chama River	336	43,500	129
Gallina River	218	21,600	100
Largo Creek (San Juan)	18	800	44
Total Santa Fe Forest	2,158	412,300	190

* Includes Rociada Tract and unacquired Mora Grant lands to Forest Boundary.

** Excluding Ramon Vigil Grant.

Baca location is not included in estimates.

ESTIMATED WATER YIELD BY PRINCIPAL DRAINAGES

GILA NATIONAL FOREST

Drainage Name	Gross Area of Basin--Sq.Mi. (Gila Forest)	Annual Water Yield Per Year Ac.Ft.	Acre Ft. Per Sq. Mi.
Luera Mtns. and Y Canyon	155	4,100	26
Negrito Creek	185	8,100	44
San Francisco (Direct)	486	35,000	68
Sub-total (San Francisco)	671	43,100	62
Sacaton Creek	18	2,500	139
Mogollon Creek	110	17,100	155
West Fork, Gila	164	30,850	188
Middle Fork, Gila	364	35,500	98
Main Stem, Gila	728	35,700	49
Bear Creek	126	7,200	57
Sapillo Creek	176	9,750	55
Black Canyon	115	10,100	88
Diamond Creek	119	9,700	81
Mangas Wash (Burros)	82	2,100	26
Gila direct (Tillie-Hall Peak)	36	800	22
Gila direct (Burros)	178	4,100	23
Sub-total (Gila River)	2,216	165,400	76
Mimbres	345	19,600	57
Rio Grande (Direct)	454	26,100	57
Sub-total (Rio Grande)	799	45,700	57
TOTAL GILA FOREST	3,841	258,300	67

CARSON NATIONAL FOREST

Latir Creek	17	5,500	325
Red River	171	62,000	364
San Cristobal	29	3,200	112
Rio Hondo	38	19,300	507
Taos Creek*	123	32,200	264
Little Rio Grande*	145	38,300	264
Embudo (Pueblo Cr.)	230	65,000	284
Coyote Creek (Can.)#	14	4,500	320
Los Pinos - San Antone	204	50,000	248
Brazos**	20	8,000	392
Aguage Arroyo##	74	4,600	62
Las Tusas	186	22,000	120
Vallecitos*	220	37,000	170
El Rito Creek	65	13,500	207
Canjilon Creek*	151	14,500	101
Rio Nutrias**	17	3,500	212
Rio Cebolla**	54	4,000	76
Chama (Direct)	38	600	16
San Juan (Jicar.)	249	15,600	63
TOTAL CARSON FOREST***	2,045	403,300	197

*Includes Non-national forest area of watershed.
**National forest drainage only.
***Totals include non-forest areas as listed above.
#Does not include Santa Fe area to be administered by Carson.
##Does not include Taos Resettlement Area.

ESTIMATED WATER YIELD BY PRINCIPAL DRAINAGES

APACHE NATIONAL FOREST

Drainage Name	Gross Area of Basin--Sq.Mi. (Apache N. F.)	Annual Water Yield Per Year Ac Ft.	-- Acre Ft. Per Sq. Mi.
Mineral Creek	52	12,200	232
Canero Creek	37	8,300	224
Little Colorado (Direct)	81	33,700	414
S. Fork Little Colorado	55	14,300	260
Nutrioso Creek	148	17,300	117
Coyote Creek*	80	5,500	69
Agua Fria Creek*	127	6,400	51
Largo Creek*	127	13,700	108
Sub-total Little Colorado	707	111,400	158
Mangas Creek*	61	8,100	133
Alamacito-Patterson*	74	8,400	114
T.H. Canyon-Cottonwood*	45	6,100	135
Sub-total Interior Plains	180	22,600	126
Tularosa Creek	324	23,800	74
Apache Creek	137	10,900	79
Saliz-Bushy Creek	75	4,200	56
Pueblo Creek	84	5,800	69
Upper"Frisco" Direct	162	24,200	149
Centerfire-Karruth Creek	149	10,800	73
Lower "Frisco" Direct	214	11,000	51
Sub-total San Francisco River**	1,145	90,700	80
Campbell & Dry Blue	112	24,700	220
Blue River (Direct)	184	23,800	129
Sub-total Blue River	296	48,500	164
North Fork Black River	49	21,800	445
East Fork Black River	63	25,500	405
Black River (Direct)	244	101,600	415
Sub-total Black River	356	148,900	418
Total Apache Forest	2,684	422,100	157

* Principally flood waters and seasonal flow.
**Exclusive of Negrito Creek above Apache-Gila boundary.

ESTIMATED WATER YIELD BY PRINCIPAL DRAINAGES

PRESCOTT NATIONAL FOREST

Drainage Name	Gross Area of Basin--Sq.Mi. (Prescott N.F.)	Annual Water-- Yield Per Yea r	Acre Ft. Per Sq. Mi.
Bill Williams	299	15,500	52
Hassayampa	204	26,100	128
Agua Fria, West	247	31,200	126
Agua Fria, Northeast (Yaeger Canyon, Ash Cr.)	218	15,200	70
Agua Fria, Southeast (Sycamore & Indian Creek)	80	8,900	111
Sub-total Agua Fria River	545	55,300	101
Verde, Northwest (Chino)	224	7,200	32
Verde, Southwest (Williamson Valley, Granite Cr.)	243	12,100	50
Verde, North (West of Hell Canyon)	208	4,800	23
Verde, North (East of Hell Canyon)	187	5,100	27
Verde, West (From Cottonwood North)	171	5,500	32
Verde, South (From Cottonwood South)	188	10,700	57
Sub-total Verde River	1,221	45,400	37
Total Prescott Forest	2,277	142,300	62

OPERATION

FIRES RECORD FOR 1952

Forest and State	A ¼ Acre or Less	B More than ¼A. Less than 10 A.	C 10 A. & less than 100 A.	D 100 A. & less than 300 A.	E Over 300 Acres	Total	Fires Man-Caused	Acreage Burned
ARIZONA								
Apache	71	23	3			97	16	186
Coconino	202	49	5			256	48	190
Coronado	32	6	9			47	8	349
Crook	30	17				47	5	40
Kaibab	81	12				93	26	19
Prescott	21	12				33	6	19
Sitgreaves	104	21	5			130	21	99
Tonto	76	35	3			114	22	100
Total Arizona	617	175	25			817	152	1,002
NEW MEXICO								
Apache	59	12	1			72	4	49
Carson	24	6				30	9	4
Cibola	26	21	3			50	5	192
Gila	96	58	8	3		165	5	1,016
Lincoln	30	12	2			44	10	100
Santa Fe	64	24	8			96	20	261
Total New Mexico	299	133	22	3		457	53	1,622

COMPARATIVE FIRES RECORD - 1942-1951 New Mexico & Arizona.

	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	Totals	Average
Number of Fires	2,008	1,652	1,456	1,499	1,510	1,629	1,527	1,668	1,796	1,971	16718	1,672
Man-caused Fires	353	253	216	287	278	304	308	172	399	264	2834	283
Acreage Burned	6,404	14,781	9,910	11,171	42,190	19,895	24,465	3,706	33,795	104,817	271134	27,113

NATIONAL FOREST IMPROVEMENTS (GOVERNMENT-OWNED) ON JUNE 30, 1952
(Includes Southwestern Forest & Range Exp. Station)

		ARIZONA		
		Number	Miles	Const. Cost
1.	Tree Planting	1,741.0		41,703.84
2.	Timber Stand Improvement	52,292.0		404,286.63
3.	Range Revegetation	4,192.8		98,333.67
4.	Acquisition of Land			
5.	Dwellings & Related Imps.			824,742.53
6.	Dwellings	213.0		
7.	Other Structures	304.0		
8.	Water & Sanitary Systems	118.0		
9.	Warehouses, Shops & Offices			402,448.26
10.	Offices	47.0		
11.	Shops	11.0		
12.	Warehouses	201.0		
13.	Communication System			
14.	Telephone Lines		1,966.3	417,568.20
15.	Fire Control Improvements			114,518.31
16.	Lookout Houses, Towers & Obs.	65.0		
17.	Fire Control Water Facilities	2.0		
18.	Airplane Landing Fields			
19.	Firebreaks		12.0	
20.	Recreation Use Improvements			1,148,013.22
21.	Campgrounds & Picnic Areas	148.0		
22.	Swimming Areas	1.0		
23.	Winter Sports Areas	6.0		
24.	Wildlife Use Improvements			159,811.17
25.	Game Refuge Fences		7.8	
26.	Fish Rearing Ponds	15.0		
27.	Stream & Lake Improvements	38.0		
28.	Range Use Improvements			3,877,506.45
29.	Drift, Boundary & Div. Fences		8,544.8	2,516,504.66
30.	Stock Driveways		173.3	7,363.81
31.	Water Developments	3,058.0		1,333,024.90
32.	Other Range Improvements			20,613.08
	Land Use Improvements			
33.	Community Developments			
34.	Soil & Water Control Imps.			359,148.29
35.	Forest Development Roads		9,517.6	10,870,695.32
36.	Trails		3,696.4	324,228.36
	Totals		13,214.0	11,194,923.68
	GRAND TOTALS	62,452.8	23,918.2	19,043,004.25

NATIONAL FOREST IMPROVEMENTS (GOVERNMENT-OWNED) JUNE 30, 1952
(Includes Southwestern Forest & Range Exp. Station)
Is part of table on opp. page.

	NEW MEXICO			REGION THREE		
	Number	Miles	Construction Cost	Number	Miles	Construction Cost
1.	1,042.0		26,998.17	2,783.0		68,702.01
2.	10,714.0		60,865.04	63,006.0		465,151.67
3.	19,965.0		302,146.38	24,157.8		400,480.05
4.	17,784.6		38,461.56	17,784.6		38,461.56
5.			461,308.95			1,286,051.48
6.	151.0			364.0		
7.	245.0			549.0		
8.	55.0			173.0		
9.			296,085.43			698,533.69
10.	34.0			81.0		
11.	3.0			14.0		
12.	138.0			339.0		
13.						
14.		2,344.3	666,012.86		4,310.6	1,083,581.06
15.			100,961.03			215,479.34
16.	51.0			116.0		
17.				2.0		
18.	1.0			1.0		
19.		3.0			15.0	
20.			567,062.90			1,715,076.12
21.	102.0			250.0		
22.				1.0		
23.	10.0			16.0		
24.			73,670.67			233,481.84
25.		4.5			12.3	
26.				15.0		
27.	57.0			95.0		
28.			2,595,496.54			6,473,002.99
29.		6,193.2	2,058,339.23		14,738.0	4,574,843.89
30.		187.0	1,931.74		360.3	9,295.55
31.	1,141.0		532,907.45	4,199.0		1,865,932.35
32.			2,318.12			22,931.20
33.			55,935.02			55,935.02
34.			445,610.21			804,758.50
35.		6,535.3	7,642,060.76		16,052.9	18,512,756.08
36.		3,648.0	236,764.27		7,344.4	560,992.63
Totals		10,183.3	7,878,825.03		23,397.3	19,073,748.71
GRAND TOTAL	51,493.6	18,915.3	13,569,439.79	113,946.4	42,833.5	32,612,444.04

LAND DISTRIBUTION STATISTICS

Land Ownership Tabulations

ARIZONA

Land Ownership	Million Acres	Percentage
Private Land (Other than Indian-owned)	16.50	22.8
Private Land (Indian Reservations)	19.20	26.4
State Lands (State and Institution Lands)	8.30	11.4
Federal Lands:		
National Forests	11.42	15.7
Other Federal	17.27	23.7
Total	72.69	100.0

NEW MEXICO

Private Land	32.40	41.6
Private Land (Indian Reservations)	7.15	9.2
State Agency Lands	12.70	16.4
Federal Lands:		
National Forests	8.63	11.2
Other Federal	16.88	21.6
Totals	77.76	100.0

National Forest Lands Withdrawn for Exclusive Use by Other Agencies, but National Forest Status Not Revoked.

State	Acres
Arizona	25,305
New Mexico	192,965
Total	218.270

SPECIAL USE PERMITS, 1951

	Free	Charge	Total
Arizona	3,684	1,812	5,496
New Mexico	1,313	706	2,019
Total, Region 3	4,997	2,518	7,515

NATIONAL FOREST AREAS

Arizona	Net Area	New Mexico	Net Area
Apache	678,418	Apache	887,778
Coconino	1,830,472	Carson	1,161,668
Coronado	1,315,950	Cibola	1,756,071
Crook	1,418,543	Coronado	69,567
Kaibab	1,715,637	Gila	2,362,198
Prescott	1,252,183	Lincoln	1,161,016
Sitgreaves	808,237	Santa Fe	1,237,069
Tonto	2,410,508		
Total	11,429,948	Total	8,635,367

Net area of the 151 National Forests in the United States for Fiscal Year 1952 - 180,168,800 acres.

RANGER DISTRICTS IN REGION 3 - TOTAL 73

ARIZONA		NEW MEXICO	
Apache National Forest	2	Apache National Forest	3
Coconino " "	6	Carson " "	6
Coronado " "	6	Cibola " "	6
Crook " "	5	Coronado " "	0
Kaibab " "	4	Gila " "	7
Prescott " "	6	Lincoln " "	5
Sitgreaves " "	4	Santa Fe " "	7
Tonto " "	6		
Total, Arizona	39	Total, New Mexico	34

AREAS UNDER FOREST SERVICE ADMINISTRATION BY COUNTIES

As of June 30, 1952

County	Total Area of County (Acres) (1940 Census)	Acreage Under F. S. Administration	Percent of County Area Under F. S. Administration
	ARIZONA		
Apache	7,151,360	485,647	6.79
Cochise	4,003,840	500,548	12.50
Coconino	11,886,720	3,396,652	28.58
Gila	3,040,000	1,676,092	55.13
Graham	2,950,400	397,026	13.46
Greenlee	1,199,360	748,929	62.44
Maricopa	5,907,840	691,763	11.71
Mohave	8,486,400	28,059	.33
Navajo	6,343,040	476,872	7.52
Pima	5,914,240	437,628	7.40
Pinal	3,441,920	222,413	6.46
Santa Cruz	797,440	425,106	53.31
Yavapai	5,178,240	1,995,817	38.54
STATE TOTAL	66,300,800	11,482,552	
	NEW MEXICO		
Bernalillo	744,320	80,666	10.83
Catron	4,414,720	2,163,514	49.00
Chavez	3,900,160	40,138	1.03
Colfax	2,409,600	6,400	.27
Dona Ana	2,434,560	189,940	7.80
Eddy	2,664,320	134,739	5.06
Grant	2,540,800	884,982	34.83
Hidalgo	2,206,080	77,220	3.50
Lincoln	3,109,760	416,886	13.41
Los Alamos	45,916	42,309	92.14
McKinley	3,491,840	176,968	5.07
Mora	1,242,880	91,685	7.38
Otero	4,248,320	482,815	11.36
Rio Arriba	3,747,200	1,196,383	31.93
Sandoval	2,439,040	279,301	11.45
San Miguel	3,039,360	295,911	9.74
Santa Fe	1,243,520	179,655	14.45
Sierra	1,941,760	380,302	19.58
Socorro	4,974,080	874,626	17.58
Taos	1,443,840	352,533	24.42
Torrance	2,137,600	246,678	11.54
Valencia	3,607,680	231,656	6.42
STATE TOTAL	58,027,386	8,825,307	

EXPERIMENTAL FORESTS

state major type of work

ARIZONA

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Logging	Grazing	Established
Coconino Kaibab	Fort Valley	4,770		Limited	None	1/28/36
Coconino	Long Valley	2,536	15	Limited	Capacity	3/31/36
Crook	Mt. Graham	3,040		Limited	Continued*	3/23/32
Tonto	Sierra Ancha	13,255		None	Continued*	4/6/38

NEW MEXICO

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Logging	Grazing	Established
Lincoln	Cloudcroft	2,120		Limited	None	11/30/35

NATURAL AREAS

ARIZONA

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Logging	Grazing	Established
Coconino	Oak Creek Canyon	940		None	None	10/15/31
Coconino	San Francisco Peaks	880		None	Conservative	10/15/31
Coronado	Butterfly Peak	1,000		None	"	7/25/35
Coronado	Chiminea Canyon	160		None	"	2/26/31
Coronado	Pole Bridge Canyon	320		None	Continued	2/26/31
Coronado	Santa Catalina	4,464		None	None	3/23/27
Coconino	Gus Pearson	154**		None	Continued temporarily	8/17/50

NEW MEXICO

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Logging	Grazing	Established
Santa Fe	Monument Canyon	640		None	None	10/1/32

RESEARCH AREA

where?

NEW MEXICO

Forest	Name of Area	Acreage: National Forest	Acreage: Other	Logging	Grazing	Established
Santa Fe	Univ. of N. M.	10,000		Regular		5/29/30

*Parker Creek Area Closed.
**Within Fort Valley Exp. Forest. Area duplicated.

ENGINEERING

ROADS AND TRAILS - JUNE 30, 1952

Type of Road	Construction Miles	Construction Cost	Reconstruction Miles	Reconstruction Cost	Maintenance Miles	Maintenance Cost	Total
During Fiscal Year 1952 — ARIZONA							
F. H.	19.0	971,724					971,724
F.D.R.			28.7	155,000	7362.1	310,000	465,000
Trails					3735.4	40,000	40,000
TOTAL		971,724		155,000		350,000	1,476,724
To June 30, 1952							
F. H.	804.3	12,893,835					12,893,835
F.D.R.	3505.4	7,665,719	1038.7	2,109,579		3,617,918	13,393,216
Trails	3125.0	425,797		507,293		1,203,562	2,136,652
TOTAL		20,985,351		2,617,872		4,821,480	28,423,703
During Fiscal Year 1952 — NEW MEXICO							
F. H.	11.2	431,900					431,900
F.D.R.	8.0	26,500	15.0	82,000	6070.2	270,000	378,500
Trails					3654.0	30,000	30,000
TOTAL		458,400		82,000		300,000	840,400
To June 30, 1952							
F. H.	412.5	9,668,743					10,281,816
F.D.R.	2545.5	5,872,504	795.0	1,744,718		3,768,477	11,385,699
Trails	1971.0	129,880				486,607	616,487
TOTAL		15,671,127		1,744,718		4,255,084	22,284,002
During Fiscal Year 1952 — REGION 3							
F. H.	30.2	1,403,624					1,403,624
F.D.R.	8.0	26,500	43.7	237,000	13432.3	580,000	843,500
Trails					7389.4	70,000	70,000
TOTAL		1,430,124		237,000		650,000	2,317,124
To June 30, 1952							
F. H.	1216.8	22,562,578					23,175,651
F.D.R.	6050.9	13,538,223	1833.7	3,854,297		7,386,395	24,778,915
Trails	5096.0	555,677				1,694,669	2,250,346
TOTAL		36,656,478		3,854,297		9,081,064	50,204,912

PAYMENTS TO STATES
From
NATIONAL FOREST RECEIPTS - JUNE 30, 1952

Region 3 — ARIZONA

Forest	County	Net Forest Area-Acres	Act June 20, 1910 (School Sections)	Act May 23, 1908 (25% Fund)
Apache	Apache	441,607		24,398.15
	Greenlee	236,811		13,083.47
	Total	678,418	9,194.93	37,481.62
Coconino	Coconino	1,404,517		123,556.94
	Yavapai	425,955		37,471.74
	Total	1,830,472	39,503.27	161,028.68
Coronado	Cochise	481,749		12,305.86
	Pima	385,024		9,835,10
	Pinal	24,071		614.87
	Santa Cruz	425,106		10,858.96
	Total	1,315,950	8,246.32	33,614.79
Crook	Cochise	18,799		414.36
	Gila	340,420		7,503.43
	Graham	397,026		8,751.12
	Greenlee	512,118		11,287.94
	Maricopa	10,866		239.50
	Pinal	139,314		3,070.72
	Total	1,418,543	7,670.38	31,267.07
Kaibab	Coconino	1,661,558		79,031.14
	Mohave	28,059		1,334.61
	Yavapai	26,020		1,237.63
	Total	1,715,637	20,018.80	81,603.38
Prescott	Coconino	43,252		808.52
	Yavapai	1,208,931		22,598.90
	Total	1,252,183	5,742.27	23,407.42
Sitgreaves	Apache	44,040		6,559.09
	Coconino	287,325		42,792.69
	Navajo	476,872		71,022.82
	Total	808,237	29,530.09	120,374.60
Tonto	Gila	1,335,672		24,315.79
	Maricopa	680,897		12,395.67
	Pinal	59,028		1,074.60
	Yavapai	334,911		6,097.02
	Total	2,410,508	10,765.32	43,883.08
Total for Arizona		11,429,948	130,671.38	532,660.64

DISTRIBUTION BY COUNTIES OF THE 25% FUND (LAST COLUMN)

Apache	$30,957.24	Greenlee	$ 24,371.41	Pinal	$ 4,760.19
Cochise	12,720.22	Maricopa	12,635.17	Santa Cruz	10,858.96
Coconino	246,189.29	Mohave	1,334.61	Yavapai	67,405.29
Gila	31,819.22	Navajo	71,022.82		
Graham	8,751,12	Pima	9,835.10	Total	$532,660.64

PAYMENTS TO STATES
From
NATIONAL FOREST RECEIPTS - JUNE 30, 1952

Region 3 — NEW MEXICO

Forest	County	Net Forest Area-Acres	Act of June 20, 1910: (School Sections)	Act May 23,1908 (25% Fund)
Apache	Carson	887,778	223.59	52,000.66
Carson	Colfax	6,400		117.89
	Mora	14,207		261.68
	Rio Arriba	789,511		14,542.27
	Taos	350,590		6,457.64
	Total	1,160,708	91.93	21,379.48
Cibola	Bernalillo	80,666		1,216.17
	Catron	165,709		2,498.34
	McKinley	176,968		2,668.08
	Sandoval	45,440		685.08
	Sierra	20,766		313.08
	Socorro	874.626		13,186.43
	Torrance	160,240		2,415.88
	Valencia	231,656		3,492.60
	Total	1,756,071	113.84	26,475.66
Coronado	Hidalgo	69,567	8.10	1,883.98
Gila	Catron	1,110,027		19,827.24
	Grant	882,987		15,771.86
	Hidalgo	7,653		136.70
	Sierra	359,536		6,422.01
	Total	2,360,203	181.27	42,157.81
Lincoln	Chavez	40,138		928.64
	Eddy	134,739		3,117.35
	Lincoln	416,886		9,645.17
	Otero	482,815		11,170.51
	Torrance	86,438		1,999.85
	Total	1,161,016	115.50	26,861.52
Santa Fe	Los Alamos	42,309		1,447.49
	Mora	77,478		2,650.69
	Rio Arriba	406,152		13,895.35
	Sandoval	233,861		8,000.90
	San Miguel	295,911		10,123.76
	Santa Fe	179,655		6,146.39
	Taos	1,703		58.26
	Total	1,237,069	181.98	42,322.84
Total for New Mexico		8,632,412	916.21	213,081.95

DISTRIBUTION BY COUNTIES OF THE 25% FUND (LAST COLUMN)

Bernalillo	$1,216.17	Lincoln	$9,645.17	San Miguel	$10,123.76
Catron	74,326.24	Los Alamos	1,447.49	Santa Fe	6,146.39
Chavez	928.64	McKinley	2,668.08	Sierra	6,735.09
Colfax	117.89	Mora	2,912.37	Socorro	13,186.43
Eddy	3,117.35	Otero	11,170.51	Taos	6,515.90
Grant	15,771.86	Rio Arriba	28,437.62	Torrance	4,415.73
Hidalgo	2,020.68	Sandoval	8,685.98	Valencia	3,492.60
				Total	$213,081.95

NET RECEIPTS FOR THE FISCAL YEAR 1952

	Timber Sales	Grazing	Land Use	Power	Total
Arizona	1,550,644.37	668,287.81	38,646.23	3,735.53	2,261,313.94
New Mexico	500,461.11	338,643.44	13,859.41	280.04	853,244.00
Region 3	2,051,105.48	1,006,931.25	52,505.64	4,015.57	3,114,557.94

Due school fund (Enabling Act June 20, 1910):

Arizona	$130,671.38
New Mexico	916.21

	Arizona	New Mexico
Total Gross Receipts	2,261,313.94	853,244.00
Less School Fund Receipts	130,671.38	916.21
Net Receipts	2,130,642.56	852,327.79
Due States 25% (Net Receipts)	532,660.64	213,081.95*
Due Road & Trail Fund 10% (Gross Receipts)	226,131.39	85,324.40**
	? 213,047	85,232.

* 25% of the net receipts from National Forests are paid over to the counties in which the forests are located for schools and roads.

** 10% of the gross National Forest Receipts are returned to the forest for use on roads and trails within the forests.

SCHOOLS GIVING COURSES LEADING TO A DEGREE IN FORESTRY

Alabama Polytechnic Institute, Auburn, Alabama
University of California, Berkeley, California
Colorado A&M College, Fort Collins, Colorado
Duke University, Durham, North Carolina
University of Florida, Gainesville, Florida
University of Georgia, Athens, Georgia
University of Idaho, Moscow, Idaho
Iowa State College, Ames, Iowa
Louisiana State University, Baton Rouge, Louisiana
University of Maine, Orono, Maine
University of Massachusetts, Amherst, Massachusetts
Michigan State College, East Lansing, Michigan
University of Michigan, Ann Arbor, Michigan
University of Minnesota, St. Paul, Minnesota
University of Missouri, Columbia, Missouri
Montana State University, Missoula, Montana
State University of New York, Syracuse, New York
North Carolina State College, Raleigh, North Carolina
Oregon State College, Corvallis, Oregon
Pennsylvania State College, State College, Pennsylvania
Purdue University, LaFayette, Indiana
Utah State Agricultural College, Logan, Utah
University of Washington, Seattle, Washington
West Virginia University, Morgantown, West Virginia
Yale University, New Haven, Connecticut

INSTITUTIONS WHICH OFFER A FORESTRY CURRICULUM BUT NOT A FORESTRY DEGREE

Stephen F. Austin State College, Nacogdoches, Texas
University of Connecticut, Storrs, Connecticut
Louisiana Polytechnic Institute, Ruston, Louisiana
Michigan College of Mining & Technology, Houghton, Michigan
University of New Hampshire, Durham, New Hampshire
Oklahoma A&M College, Stillwater, Oklahoma
Virginia Polytechnic Institute, Blackburg, Virginia
St. College of Washington, Pullman, Washington

HISTORY OF FORESTRY DEVELOPMENT IN THE UNITED STATES

1631 First sawmill at Berwick, Maine.
1640 First Ordinance governing timber use. (Exter, N. H.)
1822 DeWitt Clinton, Governor of New York, pleaded for practice of conservation.
1828 Live oak and cedar reservations for Navy made in Louisiana (19,000 acres).
1831 Timber cutting on public lands prohibited.
1849 Report of Patent Office urges conservation
1867 Wisconsin appointed committee to report on effect of forest destruction.
1870 Census. Forest area canvassed.
1872 Governor Morton of Nebraska established Arbor Day.
1873 Forestry Committee of American Association for the Advancement of Science presented memorials to Congress, asking for the appointment of a commission of forestry.
Timber culture act.
1876 Congress established an "agency" on forestry in the Department of Agriculture. Dr. Franklin B. Hough appointed Commissioner of Forestry.
1877 Congress granted its first appropriation of $6,000 for the purpose of obtaining information preparatory to establishing a Division of Forestry.
1882 American Forestry Association started April 25 at Cincinnati.
1884 The duty of making experiments with timber was added to work of Division of Forestry.
1886 Division of Forestry in Department of Agriculture created.
1891 By Act of Congress, the President was given power to establish forest reservations.
President Harrison established the Yellowstone Park Timber Land Reserve to be under control of the Land Office.
1892 Pecos River Forest Reserve established in New Mexico.
1893 Grand Canyon Forest Reserve established in Arizona.
1896 Secretary of Interior requested the National Academy of Science to investigate and recommend a National Forest policy.
1897 By the Act of June 4, the forest reserves were put under administration and from this Act, with subsequent amendments, the forests are now being administered. The Land Office had charge of administration.
The Division of Forestry gave technical advice. The U. S. Geological Survey was charged with surveying and mapping the forests.
1898 The Division of Forestry employed a total of six clerks and five scientific employees.
The first field work was done, which consisted of special investigation in connection with lumbering.
1901 The Division of Forestry was raised to the rank of Bureau but the change was in name only.

1905 By the Act of February 1, forestry work was consolidated and the forest reserves were transferred to the Department of Agriculture and the work of the Service,as we know it today, started. In July, 1905, the Bureau of Forestry became the Forest Service.

1907 The "forest reserves" were changed to National Forests in name to correct the impression that they were withdrawn from use.

1908 The direct administration of field work was transferred from Washington, D.C., to six district headquarters in the West; in 1914, a seventh district was established for the Appalachian region; in 1921 an eighth district was established in Alaska, and in 1929 a ninth district was set up for the Lake States.

1909 Between 1901 and 1909, President Roosevelt set aside over 148,000,000 acres of National Forests.

1911 By Act of March 1 (Weeks Law), acquisition of forest lands on headwaters of navigable streams east of Mississippi River made possible.

1922 General Forest Exchange Act authorizing exchange of lands in National Forests; cutting of timber in exchange for land; reservation of timber; etc., amended and extended 1923, 1926, 1928, 1929, 1935.

1924 The Reforestation Act (Clarke-McNary) was passed on June 7, greatly extending the scope of government cooperation in forestry.

1928 McNary-Woodroff Act was passed, authorizing appropriations of $2,000,000 for 1929 and $3,000,000 each for 1930 and 1931 for purchase of forest lands.
Forest Research Act (McNary-McSweeney) was passed, providing for a national forest research program on the part of seven governmental bureaus.

1930 Forest Service Districts became "Regions."
Secretary of Agriculture authorized to enlarge tree planting operations on National Forests.
Secretary of Agriculture authorized in cases of emergency to incur expense in search of persons lost in National Forests and in transporting persons seriously ill, injured or who may die within National Forests to nearest place where may be transferred to interested relatives or local authorities.

1935 Secretary of Agriculture authorized to cooperate with States in acquisition and administration of State Forests (Fulmer Act.)

1936 Secretary of Agriculture authorized to maintain forest experiment stations throughout the United States.

1937 Secretary of Agriculture authorized to cooperate in development of farm forestry in States and Territories. (Norris-Doxey Act).

1938 Senate Concurrent Resolution No. 31 adopted June 13, 1938, created a Joint Congressional Committee to study the forest situation in the United States.

1941 Joint Congressional Committee on Forestry issued a report on "Forest Lands of the United States," citing deplorable conditions in the forest areas of many sections of U. S. and recommending "The establishment of a real forest economy in this country which, as important segment of the broad agricultural economy, will put to constructive use one-third of our total land areas." Recommendations included various cooperative aids to private forest land owners, expansion of public ownership, and a federal-state system of regulation governing forestry practices.

1944 Secretary of Agriculture and Secretary of the Interior authorized by Congress to establish cooperative sustained-yield units, under cooperative agreements with private owners of forest land within the units.

Secretary of Agriculture authorized and directed by Congress to cooperate in making a national survey of forest resources.

Clarke-McNary Act (see "1924" amended, increasing funds to not exceeding $1,000,000 annually.

1945-1947 The Forest Service completed a post-war reappraisal of the forest situation in the United States. Several reappraisal reports were published. The reappraisal showed that the volume of sawtimber in the country's forests had declined some 43% in 36 years, that sawtimber was being drained from the forests one and a half times as fast as it was being replaced by growth, and that there had been a marked deterioration in quality as well as quantity of timber. It showed that cutting practice on 64% of all private forest land was poor to destructive; 28% was fair; only 8% was good or better. The reports said there is ample forest land in the United States to grow all the timber we are likely to need, but that if prospective future requirements are to be met, timber growing stock should be built up to double the present volume.

1948 First sustained-yield unit in Region established under the Sustained Yield Law (see "1944") near Vallecitos, New Mexico, on Carson National Forest.

Secretary of Agriculture set up an advisory committee to consider questions arising in regard to National Forest administration.

1949 Columbia National Forest in Washington was re-named Gifford Pinchot National Forest in memory of the first Chief of the Forest Service.

A bill, sponsored by Senator Anderson of New Mexico, was enacted by Congress to provide a large scale, continuing program of reforestation and range revegetation.

A large Sustained Yield Unit was set up on the Coconino National Forest.

1950 Congress enacted a law, known as the Granger-Thye Act, to facilitate and simplify the work of the Forest Service. It provides procedural changes which had long been needed. It also provides for use of part of the money collected as grazing fees in improving the forest ranges.
An Act known as the Cooperative Forest Management Act was passed on August 25, 1950, which had the effect of broadening the authority and ability of the Secretary of Agriculture to cooperate with states for the purpose of encouraging improved management of private forest lands and the harvesting, marketing and processing of forest products.
The Region, particularly New Mexico, experienced one of the most severe fire seasons in its history and had the largest fires of record.

1951 The drouth and high fire hazard continued. The Southwestern Region experienced the most damaging fire season on record. Although the length of the season was normal, fires burned with severe intensity and acreage loss was high.
The first fish water improvement project in the United States under the federal aid in fish and wildlife restoration act (64 Stat. 430). This act authorized state game and fish commissioners to cooperate with U. S. Forest Service in the development of the fisheries resource on the national forests.

1952 Public Law 419 of the 82nd Congress authorized and directed the Secretary of Agriculture to transfer certain tracts of land in Northern New Mexico to the permanent jurisdiction of the Forest Service. These included the north half of the Lobato Grant going to the Carson National Forest and the El Pueblo tract going to the Santa Fe Forest.

1953 - The reorganization of the Department of Agriculture transferred — acres of Land Utilization Project lands in N. Mex. Texas and Oklahoma to administration of U S Forest Service, Southwest Region

ORIGIN OF NATIONAL FORESTS IN THE SOUTHWEST

ARIZONA

Dates of Proclamations and Executive Orders Establishing Them	Original Names and Present Names
Apache National Forest	
August 17, 1898	Black Mesa Forest Reserve
July 1, 1908	Part of the Black Mesa Forest Reserve became the Apache N. F.
(The above covers only the portion of the Apache N. F. in Arizona.)	
Coconino National Forest	
August 17, 1898	San Francisco Mountains Forest Reserve
July 2, 1908	All of the San Francisco Mountains Forest Reserve and parts of the Black Mesa, Tonto and Grand Canyon Forest Reserves were consolidated under the name of Coconino N. F.
Coronado National Forest	
November 5, 1906	Baboquivari Forest Reserve
November 6, 1906	Huachuca Forest Reserve
November 7, 1906	Tumacacori Forest Reserve
July 2, 1908	Baboquivari, Huachuca and Tumacacori Forest Reserves consolidated under name of Garces N. F.
April 11, 1902	Santa Rita Forest Reserve
July 2, 1902	Santa Catalina Forest Reserve
May 25, 1907	Dragoon N. F.
July 2, 1908	Santa Rita,, Santa Catalina and Dragoon N. F. consolidated under name of Coronado N. F.
April 17, 1911	Garces and Coronado N. F. consolidated under name of Coronado N. F.

Coronado National Forest (Continued)

July 30, 1902	Chiricahua Forest Reserve
November 5, 1906	Peloncillo Forest Reserve
July 2, 1908	Chiricahua and Peloncillo Forest Reserves consolidated under name of Chiricahua N. F. (Portion of the Peloncillo in New Mexico.)
July 6, 1917	Chiricahua and Coronado N. F. consolidated under name of Coronado N. F.

(The above covers the entire Forest in Arizona and New Mexico.)

Crook National Forest — Consolidated with Coronado, Kaibab & Tonto

July 22, 1902	Mt. Graham Forest Reserve
March 20, 1905	Pinal Mountains Forest Reserve
October 3, 1905	Tonto Forest Reserve
January 13, 1908	Pinal Mountains Forest Reserve became part of Tonto N. F.
July 1, 1908	Parts of the Mt. Graham and Tonto N. F. including Pinal Mountains area, consolidated under name of Crook N. F.
January 23, 1925	518,431 acres transferred from Apache N. F. to Crook N. F.

Kaibab National Forest

February 20, 1893	Grand Canyon Forest Reserve
July 2, 1908	All of the San Francisco Mountains and parts of the Black Mesa, Tonto and Grand Canyon Forest Reserves consolidated under name of Coconino N. F.
June 28, 1910	Part of the Coconino N. F. together with certain other land not heretofore reserved became Tusayan N. F.
May 22, 1908	Dixie N. F. (Arizona)
July 2, 1908	Kaibab N. F.

Kaibab National Forest (Continued)

March 18, 1924	Dixie consolidated with Kaibab N. F.
August 4, 1934	Tusayan and Kaibab N. F. consolidated.

Prescott National Forest

May 10, 1898	Prescott Forest Reserve
December 30, 1907	Verde Forest Reserve
July 2, 1908	Prescott and Verde N. F. consolidated under name of Prescott N. F.
October 22, 1934	249,201 acres transferred from Tusayan to Prescott N. F.

Sitgreaves National Forest

July 1, 1908	Parts of the Black Mesa and Tonto N. F. consolidated under name of Sitgreaves N. F.

Tonto National Forest

October 3, 1905	Tonto Forest Reserve
October 22, 1934	Bloody Basin transferred from Prescott to Tonto N. F. (151,285 acres)

NEW MEXICO

Apache National Forest

January 23, 1925	A portion of Datil N. F. was transferred to Apache N. F. This portion was originally part of the Magdalena and Gila River Forest Reserves.

Carson National Forest

November 7, 1906	Taos Forest Reserve
July 1, 1908	Carson N. F. created by consolidation of Taos N. F. and part of Jemez N. F.
June 16, 1923	63,708 acres in Taos County transferred from Santa Fe N. F. to Carson N.F.

Cibola National Forest

October 5, 1906	Mt. Taylor Forest Reserve
November 5, 1906	San Mateo Forest Reserve. Magdalena Forest Reserve.
November 6, 1906	Manzano Forest Reserve
April 16, 1908	Mt. Taylor N. F. consolidated with Manzano N.F.
June 18, 1908	Creating the Datil N. F.
July 2, 1908	San Mateo N. F. added to Magdalena N. F.
February 23, 1909	Magdalena and Datil N. F. consolidated
March 2, 1909	Zuni N. F.
September 10, 1914	Zuni N. F. consolidated with Manzano N. F.
December 3, 1931	Name of the Manzano changed to Cibola N. F. and a portion of the Datil transferred to the Cibola.

Gila National Forest

March 2, 1899	Gila River Forest Reserve
February 6, 1907	Big Burros Forest Reserve
June 18, 1908	Consolidating the Big Burros with Gila N. F.
December 24, 1931	A portion of the Datil was transferred to the Gila N. F.

Lincoln National Forest

July 26, 1902	Lincoln Forest Reserve
November 5, 1906	Gallinas Forest Reserve
April 19, 1907	Guadalupe N. F.
April 24, 1907	Sacramento N. F.
July 2, 1908	Guadalupe and Sacramento N. F. consolidated as Alamo N. F. The Gallinas and Lincoln N.F. consolidated as Lincoln N. F.
June 6, 1917 (effective July 1)	Alamo N. F. transferred to Lincoln N. F.

Santa Fe National Forest

January 11, 1892	Pecos River Forest Reserve
October 12, 1905	Jemez Forest Reserve
July 1, 1908	Pecos River N. F. changed to Pecos N. F.
July 1, 1915	Jemez and Pecos N. F. consolidated as the Santa Fe N. F.

October 3, 1905	Portales Forest Reserve
March, 1907	Portales Forest Reserve restored to the Public Domain.

NOTE: The foregoing covers only changes of name and major transfers. There have been many additions, eliminations and changes in boundaries not listed.